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Notice of Allowability

Application No.

09/965,934

Applicant(s)

GARG ET AL.

Examiner

Art Unit

Jason D. Cardone

2145

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment, filed 6/27/05.
2. ☒ The allowed claim(s) is/are 8,9,11 and 28-30.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 6/27/05
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


Jason D Cardone
Primary Examiner
Art Unit: 2145

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Eric T. King (Reg. No. 44,188) on September 12, 2005.

2. The application has been amended as follows:

Claim 8 (Twice Amended) A system comprising:

a home server including a service component installed in a network software stack, the service component to detect when a server application listens for a connection;

a remote client coupled through the Internet and to the system by an Internet agent, the Internet agent listening on behalf of the home server for connection requests from a remote client;

a forwarding agent directly connected to the home server, wherein the service component informs the forwarding agent that the server application is listening for a connection and forwards the access parameters to the forwarding agent, the forwarding agent to provide the Internet agent with access parameters received from the home server; and

a gateway running a Network Address Translation (NAT) software program, the gateway connecting the forwarding agent to the Internet agent via the Internet;

wherein, if the remote client provides proper access parameters to the Internet agent, the Internet agent provides the remote client access to a service running on the home server and the Internet agent and the forwarding agent [become] act as layer 4 routers.

Claim 11 (Amended) The system of claim [10] 9, wherein the service component allows access to the server application by a remote client by:

- a) inquiring whether a user would like the server application to be accessible from a remote client; and
- b) setting required access parameters.

Claim 28 (Amended) A method comprising:

detecting when a server application of a home server listens for a connection utilizing a service component installed in a network software stack;

utilizing an Internet agent to couple a remote server through the Internet to the home server, the Internet agent listening on behalf of the home server for connection requests from a remote client;

utilizing a forwarding agent directly connected to the home server to provide the Internet agent with access parameters received from the home server, wherein a service component of the home server informs the forwarding agent that the server

application is listening for a connection and forwards the access parameters to the forwarding agent; and

connecting the forwarding agent to the Internet and the Internet agent using a gateway running a Network Address Translation (NAT) software program;

wherein, if the remote client provides proper access parameters to the Internet agent, the Internet agent provides the remote client access to a service running on the home server and the Internet agent and the forwarding agent [become] act as layer 4 routers.

3. The following is an examiner's statement of reasons for allowance:

None of the prior art references teach (alone or in combination) all the limitations together, within the independent claims 8 and 28. For example, the independent claims contain limitations, within a certain environment, a forwarding agent and an Internet agent to startup a session for a remote/external client to a home server. After the remote client has proper access, the agents perform layer 4 router functions.

Applicants' arguments [filed 6/27/05, pgs 7-8] are considered persuasive to the limitations of this claim over the prior art of record. Examiner agrees that the limitations of the independent claims are allowable subject matter over the prior art, in light of the specification, with the two agents to starting a session and acting as layer 4 routers, through the use of NAT. The prior art discloses NAT blocking incoming connections [Specification, page 2, lines 4-10]. Therefore, the combination of the limitations, within

its environment, is allowable subject matter, in light of the specification and in view of the Applicants' persuasive arguments. The independent claims 8 and 28 (and their dependent claims) are allowable, since the claim language discloses this combination of limitations in accordance with the specification, over the prior art of record.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

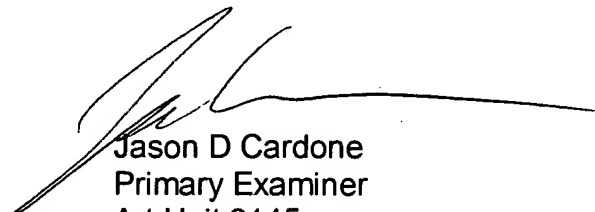
5. Claims 8, 9, 11 and 28-30 are allowed.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason D. Cardone whose telephone number is (571) 272-3933. The examiner can normally be reached on Mon.-Thu. (6AM-3PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Valencia Martin-Wallace can be reached on (571) 272-6159. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Jason D Cardone
Primary Examiner
Art Unit 2145

September 13, 2005